

Title (en)
Fuse-actuating device.

Title (de)
Zünderauslöseeinrichtung.

Title (fr)
Dispositif de mise à feu d'une amorce.

Publication
EP 0161460 A1 19851121 (DE)

Application
EP 85104070 A 19850403

Priority
DE 3414841 A 19840419

Abstract (en)
[origin: US4648320A] A detonator triggering device which is located in the head of an underwater projectile, and wherein a pressure receiver which is positioned within an opening in the projectile head is exposed to a dynamic pressure or velocity head. A piezo-ceramic disc which is equipped with electrical contacts is rigidly supported on one side thereof in the head of the projectile, and with its other side contacts against a pressure transmitting member which is supported within the opening in the head. As a result, the dynamic pressure will act against the piezo-ceramic disc. Every change in the dynamic pressure consequently provides for a corresponding change in the charge or change in the voltage of the piezo-ceramic disc. This permits itself to be processed in an electronic evaluating or gating circuit, such that the applicable voltage change is employed as the actuating criteria.

Abstract (de)
Bei einer Zünderauslöseeinrichtung am Kopf (1) eines Unterwassergeschosses ist ein Druckaufnehmer dem Staudruck ausgesetzt. Die Zünderauslöseeinrichtung soll es erlauben, verschiedene Staudruckänderungen auszuwerten, und ohne bewegliche Teile arbeiten. Es ist hierfür im Kopf (1) des Geschosses eine mit elektrischen Kontakten (7, 9) versehene Piezokeramikscheibe (8) an ihrer einen Seite starr gestützt. An ihrer anderen Seite liegt ein Druckübertragungskörper (11) an.

IPC 1-7
F42C 11/02

IPC 8 full level
F42C 11/02 (2006.01)

CPC (source: EP US)
F42C 11/02 (2013.01 - EP US)

Citation (search report)

- [X] US 3324317 A 19670606 - HAZELET GERALD L
- [AD] EP 0073333 A2 19830309 - DORNIER GMBH [DE]
- [Y] US 3209693 A 19651005 - CARR ALTON F
- [A] US 2972306 A 19610221 - IRVING KABIK, et al
- [A] DE 2344199 A1 19750306 - MESSERSCHMITT BOELKOW BLOHM

Cited by
DE4025563C1; GB2268251A; GB2268251B; FR2903772A1; EP1878995A3; US7661363B2

Designated contracting state (EPC)
BE DE FR GB IT NL SE

DOCDB simple family (publication)
EP 0161460 A1 19851121; EP 0161460 B1 19880113; DE 3414841 A1 19851024; DE 3561421 D1 19880218; DK 133985 A 19851020; DK 133985 D0 19850325; DK 155473 B 19890410; DK 155473 C 19890911; US 4648320 A 19870310

DOCDB simple family (application)
EP 85104070 A 19850403; DE 3414841 A 19840419; DE 3561421 T 19850403; DK 133985 A 19850325; US 71590185 A 19850326